

## Abstract

5      An ultrasonic probe, including an ultrasonic element for transmitting and receiving ultrasonic waves; a sound window enclosing the ultrasonic element; and a sound propagation liquid charged in the sound window. A barrier layer capable of inhibiting the permeation of liquids and gases is provided on a wall surface of the sound window. As the barrier layer, at least one selected from a polyparaxylylene layer and a metal layer can be used.